

Expert Advice For the Automobile Owner

Queries and Replies Covering Matters of Importance to the Man Who Runs a Car

What increase in power can I expect by using ether in gasoline and in what proportion is it used to gain the best of results?

The use of ether in fuel will give a slight increase in power, due to the more rapid propagation of the flame. One-half pint of ether for each ten gallons of gasoline is used for this purpose, but it is not recommended, as it is not economical. For getting easier starting a mixture of one-half commercial ether and one-half gasoline is carried in an oil can. This can be squirted into each priming cup for the initial explosions. The can must have a cover on the spout.

How will incorrect wiring affect my motor?

The effect of incorrect wiring on the motor depends on how the wires are misplaced. For instance, if the high tension cables were changed around so that no one of them went to the right plug it would be impossible to run the motor, although an occasional explosion might be obtained. If two or three of the high tension wires were interchanged, but one or more were left on the correct plugs, then the motor would run on the cylinders in which the latter were. Where a dual system is employed the wires of the battery system may sometimes be misplaced without interfering with the operation of the magneto and vice versa. As a rule, however, the changing of the wires will result in the whole ignition system becoming inoperative.

Has a long stroke motor any advantages over a short stroke motor?

Yes. The gas after ignition has greater chance to give up its energy to the piston. A greater volume of gas may be gotten into the cylinder without increasing the bore. This means more power for the same piston speed.

How can I take up the end play in a crank shaft without putting in new bearings?

It is best to replace the bearings when end play develops, but if this is not desirable the play can be removed by moving the thrust bearing to one side enough to compensate for the wear. The thrust is taken by the center main bearing, which is easily distinguished by having large flanges on each side. Remove the bolts holding the bearing to the crank case and allow the bolt holes enough to permit the bearing to be shifted. Then replace the bearing and tighten the bolts carefully.

How will running with retarded spark make the water boil in the radiator?

Operating a motor with retarded spark will cause overheating by retarding and prolonging the combustion of the charge throughout the power of expansion stroke. Thus the cylinder walls are exposed to the action of the burning gases during the whole of the stroke instead of only during the time the piston is in the region of upper dead center, as is the case when the spark is properly set. If the spark is advanced to the point of most efficient operation the spark will occur some time before dead center and maximum pressure will be reached and the combustion nearly completed just after dead center has been passed. During this time, since the piston is near top of the stroke, the amount of surface exposed to the exhaust gases is at a minimum and, furthermore, at this point in the stroke the compression is at its height, and combustion takes place with greatest rapidity. Contrast these conditions with what happens when the spark is greatly retarded. Let us assume that ignition occurs when the piston has half completed its stroke. At this point the compression is lower, and combustion is therefore slower and will probably not be completed until after the exhaust valve opens. The hot gases are in contact with nearly the whole of the cylinder wall surface for practically one-half revolution.

But this is not all. When the spark is retarded, as in the instance just mentioned, the motor does not develop full power, therefore for a given load on the motor the throttle must be opened wider and more gasoline and air must be supplied. The extra heat generated by the combustion of the increased amount of fuel thus adds its share to the already overheated motor.

My car is equipped with electric lights and would like to know if dry batteries would work the head and tail lights. If so, how many and about how many hours would they last?

Dry batteries are not suited for lighting the head and tail lights. This method would be entirely too expensive, as the number of batteries you would require would be great and their life short. Take your storage battery to a battery repair man that you are certain is an expert—if possible take it to a service station maintained by the maker of your battery—and have it examined. It may be that all it needs is an overhauling to make it as good as new. But even if you must buy a new battery it is better to do this than try to use dry cells.

WANT THE SOLDIERS.

HUNTINGTON, July 31.—Officials of the chamber of commerce have already put out lines which they hope will draw the 1916 encampment of the West Virginia national guard southern companies to Huntington.

OFFICIAL MUSIC.

SAN FRANCISCO, Cal., July 31.—The national convention of music teachers, in session here, will ask Congress to adopt "Stars and Stripes Forever" and "Dixie" as the official marches for the army and navy.

Pigeon Stops Clocks

Bird Rests on the Minute Hand and Mayor Misses His Train.

POUGHKEEPSIE, N. Y., July 31.—The town clock having been put out of commission by pigeons which have chosen the belfry of the First reformed church as their home, residents of Poughkeepsie, who for half a century have depended upon the big time piece in the steeple, will either have to buy watches or guess at the time. The birds have built their nests in the works of the clock and clogged up the machinery.

The other morning at twenty minutes to nine a big fat pigeon flew upon the "minute" hand and sat there for more than an hour, causing Mayor Wilbur to miss his train to Rhinebeck.

The helpless caretaker appealed to the chief of police and he referred the complaint to the city chamberlain. He in turn passed it on to the board of aldermen and that body has referred it to the public property committee of the board.

Hoodoo

Pursues Two Miners, Who Are Victims of Very Queer Accidents.

HAILEY, Idaho, July 31.—Two mining partners, Gus Erickson and Bert Pinney, are certainly pursued by some hoodoo. While working on a stage ten feet below the surface, the stage broke away from its fastening, dropping Pinney down the shaft twenty feet, where, after he

Prophecies His Own Death

And He Dies within Twenty Minutes of the Time Set.

KINSTON, N. C., July 31.—Peter White, an aged negro residing near Washington, N. C., died at 12:20 p. m., just twenty minutes later than the hour he had appointed. In April White told friends that he would "give up the ghost" on July 20 at the stroke of 12.

About this time Jerry Langley, colored, was giving the police of Washington trouble. Langley had set the date and hour for his demise. He postponed it several times, each time disappointing a great crowd of blacks gathered for the dramatic exit of Langley. Finally, when he said the thing was final, the crowd blacked the street and the police would not wait for Jerry to die. They hustled him to the county home. He is still living.

White, the authorities say, may have been prompted by Langley's example. He had visions of himself being trampled aloft in a golden chariot. Old age claimed him, doctors say.

had turned head down, his buckskin shoe laces caught on a nail and held him until help arrived. Three hundred feet of water would have received him had his laces broke.

The next afternoon Erickson came to town on his motorcycle to get the mail. Returning, the motorcycle skidded in a rut, throwing its rider over the handle bars into the road. With his skull fractured in three places, he lay in the road an hour before he was found. Both men will recover.

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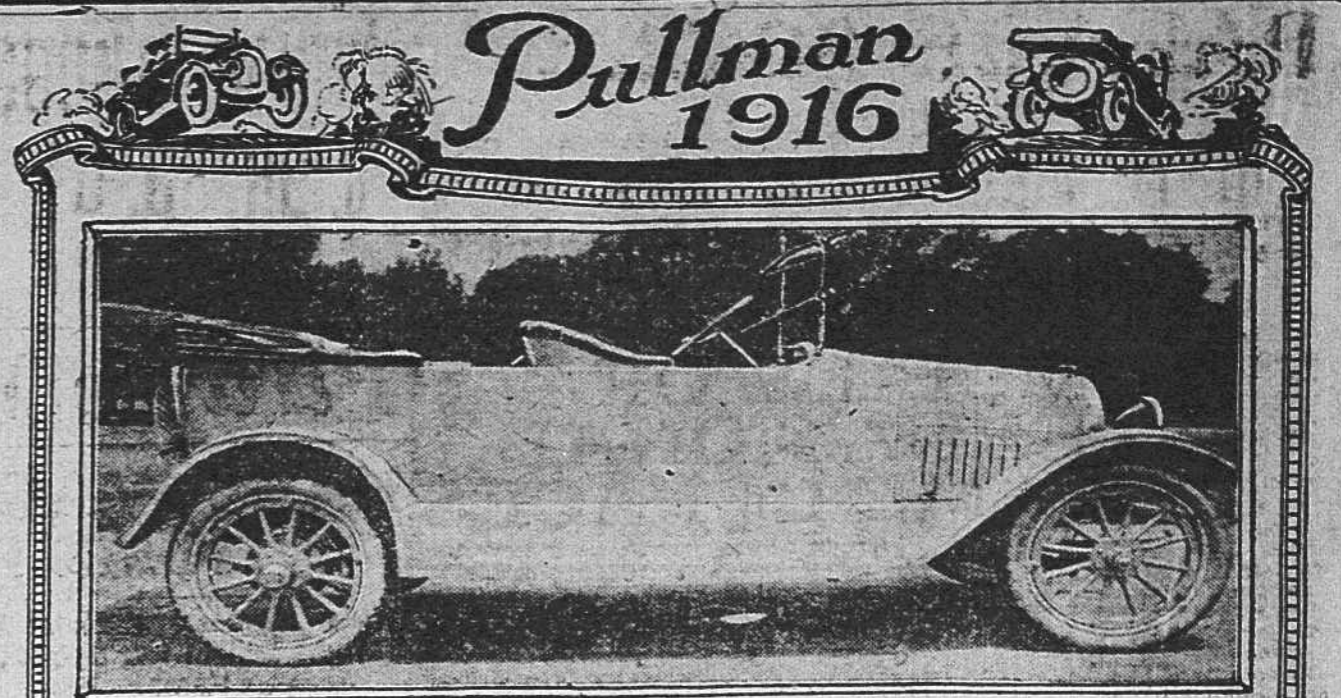
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It is the handsomest, largest, best equipped, and easiest riding car in AMERICA selling under \$1,000.

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Rear Seat 50 Inches Wide (same width as large six cylinder cars).

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From Wheeling to Clarksburg On High Gear

William P. Barnhart drove a 1916 Pullman from Wheeling to Clarksburg via Mannington negotiating the ride in what he terms was one of the most pleasant in his 13 years' connection with the automobile business.

The car traveled 86 miles yesterday en route to Clarksburg on three and one-half gallons of gasoline.

Mr. Barnhart is on a factory test trip with a 1916 Pullman so that the engineers will know just what conditions motorists have to contend with in West Virginia.

Thompson Garage Company

Distributors for Central West Virginia.

BRAZILIAN BEEF.

(BY ASSOCIATED PRESS)
NEW YORK, July 31.—A shipment of 160 tons of frozen beef from Santos, Brazil, said to be the first consignment of Brazilian beef ever received at a United States port, arrived here today on the steamship Rio de Janeiro. Argentine beef has been shipped here for sometime.

Benefited Chamberlain's Liniment.

"Last winter I used Chamberlain's Liniment for rheumatic pains, stiffness and soreness of the knees, and can conscientiously say that I never used anything that did me so much good."—Edward Craft, Elba, N. Y. Obtainable everywhere. Advertise-ment.

TO SHARE PROFITS.

(BY ASSOCIATED PRESS)
BRIDGEPORT, Conn., July 31.—Notice was given to 3,000 workmen by the Locomobile Company of America today that profits would be shared with them. The plan is to increase wages proportionately with the increase of product.

This is a regular performance for

Nassau Tires

"All-Mighty Tough"

TELEGRAM

Clarksburg, W. Va., 1915.

Thermoid Rubber Co.,

Trenton, N. J.

Won 5-mile free-for-all Handicap with Packard Gray Hound and Nassau Tires at Fair Ground, one-half mile track today. Time, 6:13 3-5 seconds. The Gray Hound is equipped with the same tires she used at Fairmont meet July 5, and she will use them again in Altoona, Pa., meet on August 7th, as they show no perceptible wear. Nassau is a great tire.

(Signed)

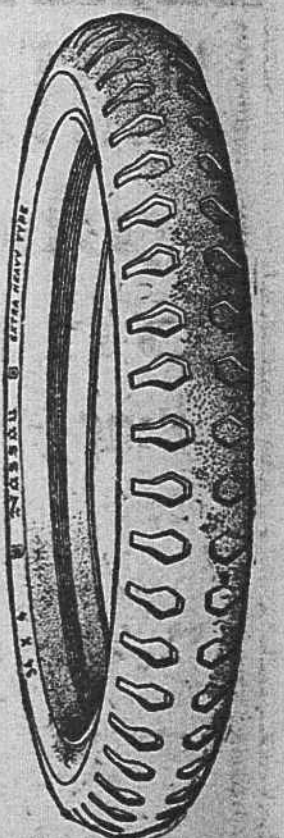
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